

# Certificate of Analysis

Product ID: OHu13860D Lot. No.: 817239863-1/H21195

Product Information:

Gene Symbol: VRK2 Accession No.: NM\_001130481

Cloning Vector: pcDNA3.1<sup>+</sup>/C-(K)DYK Gene Length\*: 1527 bp

Cloning Strategy: CloneEZ Plasmid Size: 6917 bp

Antibiotic Resistance: Ampicillin, recommended concentration: 50 µg/ml Amount: 10 µg

Note: \* The stop codon has not been included in gene length calculation. And the detail sequence showed in attachment 2

Storage: Store at -20°C  
The ORF clone is shipped at room temperature, but should be kept at -20°C for long-term storage.

QC Items	Specifications	Results	
Sequencing Alignment	Sequencing results are consistent with the targeted insert sequence.	Pass	Consistent
Vector Sequence	The flanking sequences of the cloning sites are correct.	Pass	Correct Shown in the SQD file
Restriction Digests	The size of inserted fragment is correct and free of unexpected bands suggesting contamination.	Pass	Correct Shown in attachment 1
DNA Quality	Miniprep: 10 µg OD260/280=1.8~2.0 Free of contamination	Pass	≥ 10 µg OD260/280=1.87 Pure
Quality Grade	Research Grade	Pass	Research Grade
Appearance	Clear and free of foreign particles.	Pass	Clear Free of foreign particles
Additional Test		N/A	

Certified by: *Morgan* Date: 09/01/2016

Thank you for your patronage to our Gene services! To maintain this working relationship, we shall be grateful if you can add our webpage URL into your lab website. As a token of appreciation, you will be rewarded by 1,000 EZcoupon™ points. For more information, please contact us by e-mail at [web@genscript.com](mailto:web@genscript.com).

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Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

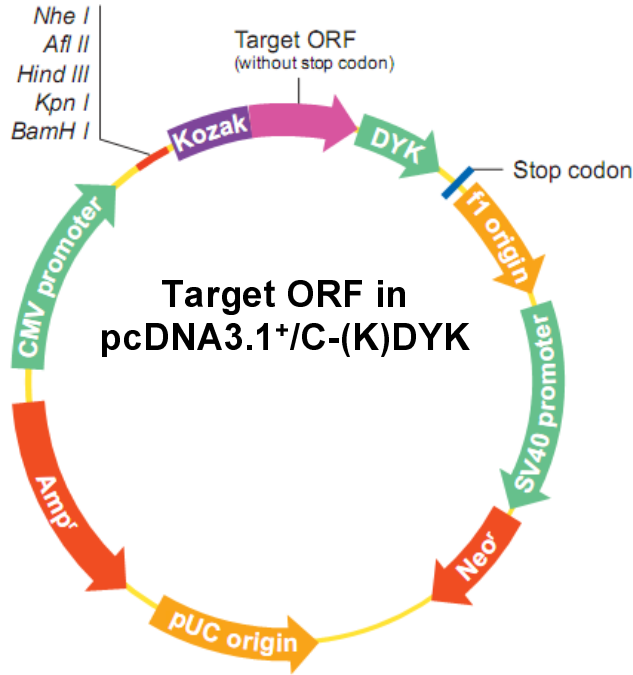
Fax: 1-732-210-0262

Email: [order@genscript.com](mailto:order@genscript.com)

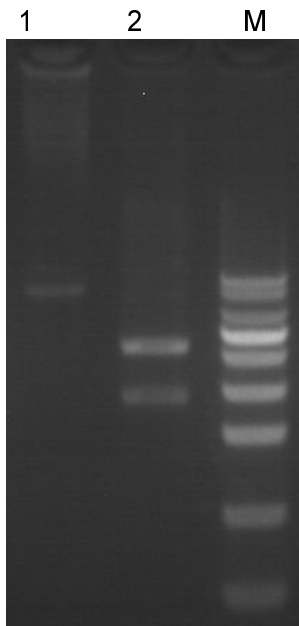
Web: [www.genscript.com](http://www.genscript.com)

Plasmid Construct Map

The ORF was cloned in pcDNA3.1<sup>+</sup>/C-(K)DYK by CloneEZ.

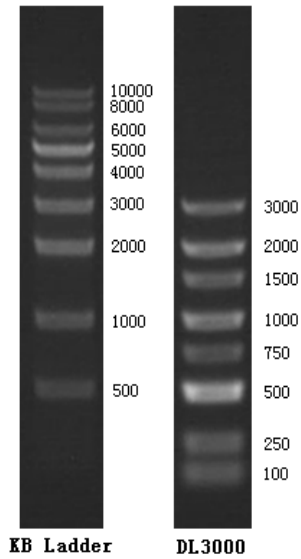


Enzyme Digestion



Lane M: KB Ladder  
Lane 1: OHu13860D plasmid  
Lane 2: OHu13860D plasmid digested by HindIII and SmaI

**Digestion Conditions:**  
~ 300ng plasmid digested  
Digestion in water-bath, 37°C for 40 minutes  
1% Agarose Gel



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## Attachment 2

## Original ORF Sequence (Including start and stop codons)

```
ATGCCACCAA AAAGAAATGA AAAATACAAA CTTCTATTC CATTTCAGA AGGCAAGGTT CTGGATGATA TGAAGGCAA TCAGTGGGTA CTGGGCAAGA
AGATTGGGCTC TGGAGGATTG GGATTGATAT ATTTAGCTTT CCCCACAAAT AAACCAGAGA AAGATGCAAG ACATGTAGTA AAAGTGGAAAT ATCAAGAAAA
TGGCCCGTTA TTTTCAGAAC TTAATTTTA TCAGAGAGTT GCAAAAAAAG ACTGTATCAA AAAGTGGATA GAACGCAAAC AACTTGATTA TTTAGGAATT
CCTCTGTTTT ATGGATCTGG TCTGACTGAA TTCAAGGGAA GAAGTTACAG ATTTATGGTA ATGGAAAGAC TAGGAATAGA TTTACAGAAG ATCTCAGGCC
AGAATGGTAC CTTTAAAAAG TCAACTGTCC TGCAATTAGG TATCCGAATG TTGGATGTAC TGGAAATATAT ACATGAAAAT GAATATGTTC ATGGTGATAT
AAAAGCAGCA AATCTACTTT TGGGTTACAA AAATCCAGAC CAGGTTTATC TTGCAGATTA TGGACTTTCC TACAGATATT GTCCCAATGG GAACCACAAA
CAGTATCAGG AAAATCCTAG AAAAGGCCAT AATGGGACAA TAGAGTTTAC CAGCTTGGAT GCCCACAAGG GAGTAGCCTT GTCCAGACGA AGTGACGTTG
AGATCCTCGG CTAATGCATG CTGCGGTGGT TGTGTGGGAA ACTTCCTGG GAACAGAACC TGAAGGACCC TGTGGCTGTG CAGACTGCTA AAACAAATCT
GTTGGACGAG CTCCCCAGT CAGTGCTTAA ATGGGCTCCT TCTGGAAGCA GTTGCTGTGA AATAGCCCAA TTTTGGTAT GTGCTCATAG TTTAGCATAT
GATGAAAAGC CAAACTATCA AGCCCTCAAG AAAATTTTGA ACCCTCATGG AATACCTTTA GGACCACTGG ACTTTTCCAC AAAAGGACAG AGTATAAATG
TCCATACTCC AAACAGTCAA AAAGTTGATT CACAAAAGGC TGCAACAAAG CAAGTCAACA AGGCACACAA TAGGTTAATC GAAAAAAAAG TCCACAGTGA
GAGAAGCGCT GAGTCCTGTG CAACATGGAA AGTGCAGAAA GAGGAGAAAC TGATTGGATT GATGAACAAT GAAGCAGCTC AGGAAAGCAC AAGGAGAAGA
CAGAAATATC AAGAGTCTCA AGAACCTTTG AATGAAGTAA ACAGTTTCCC AAAAAAATC AGCTATACAC AATTCCCAA CTCATTTTAT GAGCCTCATC
AAGATTTTAC CAGTCCAGAT ATATTCAAGA AGTCAAGATC TCCATCTGG TATAAATACA CTTCCACAGT CAGCACGGG ATCACAGACT TAGAAAGTTC
AACTGGACTT TGGCCTACAA TTTCCAGTT TACTCTTAGT GAAGAGACAA ACGCAGATGT TTATTATTAT CGCATCATCA TACCTGCCT TTTGATGTTA
GTATTTCTTG CTTTATTTT TCTCTGA
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